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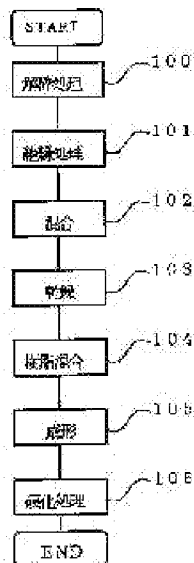
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(54) METHOD AND DEVICE FOR MANUFACTURING DUCT CORE



(57)Abstract:

PROBLEM TO BE SOLVED: To suppress eddy current loss in a duct core by perfectly forming an electric insulating layer for each magnetic powder grain.

SOLUTION: In a step 100, a cracking process wherein a secondary coagulation of the magnetic powder is released is performed. This cracking process is performed before an insulation process in the net step 101. The magnetic powder wherein the secondary coagulation is released is performed with

an insulation process in the step 101, for evenly forming an electric insulation

layer on each surface of the magnetic powder. The magnetic powder wherein the electric insulation layer is formed on the surface is mixed in a step 102, and dried in a step 103. Then in a step 104, a polyimide resin, etc., is added as a bonding agent to the magnetic powder for mixing. After that, in a step 105, it is molded to a dust core under compression. Lastly, it is dried in a step 106.